

Integrating Least Squares Analysis with GIS for Cadastral Data Quality Enhancements

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SUMMARY

The newest generation of the parcel fabric is built from the most technologically advanced elements of today's computing, mapping and information systems.

When empowered by land information systems such as these, cadastral agencies can benefit from advanced spatial analysis and attain previously unreachable goals.

This paper focuses on using least squares analysis to improve the spatial accuracy of parcel boundaries in a GIS. The paper includes details on the integration of the DynAdjust least squares engine. Other topics include performance, scalability, data modeling, symbology, visualization, user experience, and harnessing the power of a service-oriented-architecture.

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